

Title (en)
CHEMICAL MECHANICAL PLANARIZATION SLURRY AND METHOD FOR FORMING SAME

Title (de)
SCHLÄMME ZUM CHEMISCHEN-MECHANISCHEN POLIEREN UND VERFAHREN ZUR FORMUNG DAVON

Title (fr)
BOUE DE PLANARISATION CHIMICO-MÉCANIQUE ET SON PROCÉDÉ DE FORMATION

Publication
EP 3516002 B1 20220105 (EN)

Application
EP 17853843 A 20170921

Priority
• US 201662398960 P 20160923
• US 2017052604 W 20170921

Abstract (en)
[origin: US2018086944A1] A CMP slurry including a carrier, a particulate material within the carrier including an oxide, carbide, nitride, boride, diamond or any combination thereof, an oxidizer including at least one material selected from the group of peroxides, persulfates, permanganates, periodates, perchlorates, hypochlorites, iodates, peroxymonosulfates, ceric ammonium nitrate, periodic acid, ferricyanides, or any combination thereof, and a material removal rate index (MRR) of at least 500 nm/hr and an average roughness index (Ra) of not greater than 5 Angstroms according to the Standardized Polishing test.

IPC 8 full level
C09G 1/02 (2006.01); **C09K 3/14** (2006.01)

CPC (source: EP KR US)
C09G 1/02 (2013.01 - EP KR US); **C09G 1/04** (2013.01 - US); **C09K 3/14** (2013.01 - KR); **C09K 3/1463** (2013.01 - EP US); **H01L 21/02024** (2013.01 - EP US); **H01L 21/30625** (2013.01 - US); **C09K 3/1436** (2013.01 - EP US)

Designated contracting state (EPC)
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US 10329455 B2 20190625; **US 2018086944 A1 20180329**; CN 109715751 A 20190503; EP 3516002 A1 20190731; EP 3516002 A4 20200527; EP 3516002 B1 20220105; JP 2019535146 A 20191205; JP 6947827 B2 20211013; KR 102371795 B1 20220308; KR 20190040360 A 20190417; KR 20210040453 A 20210413; TW 201814026 A 20180416; TW I673354 B 20191001; WO 2018057674 A1 20180329

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